

## ABSTRACT OF THE DISCLOSURE

A stimuli-responsive polymer hydrogel is provided. The stimuli-responsive polymer hydrogel has a high breaking strength and excellent stimuli-responsive function and is highly stable with elapse of time. The stimuli-responsive polymer hydrogel is capable of gelating as a result of absorbing and swelling with water and capable of changing its degree of swelling and/or volume in response to a stimulus and contains a water-insoluble polymer as a phase separation structure.